

DPE Digital Preservation Trainers

DigitalPreservationEurope, building on the earlier successful work of ERPANET, facilitates pooling of the complementary expertise that exists across the academic research, cultural, public administration and industry sectors in Europe. DigitalPreservationEurope (DPE) fosters collaboration and synergies between many existing national initiatives across the European Research Area. DPE addresses the need to improve coordination, cooperation and consistency in current activities to secure effective preservation of digital materials.

Core Partners: HATII at the University of Glasgow (Co-ordinator), Technische Universität Wien, Statsbiblioteket, Nationaal Archief van Nederland, Národní knihovna Ceske republiky, Ministero Per I Beni E Le Attività Culturali, Fondazione Rinascimento Digitale, Vilnius University Faculty of Communication, FernUniversität Hagen.

<http://www.digitalpreservationeurope.eu>

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Organisation: Vienna University of Technology

Type of Organisation: Academic institution

Country: Austria

Languages: English, German

Areas of Expertise: Preservation planning

DigitalPreservationEurope makes no guarantees about the quality of the information supplied herein or about the abilities of this person as a trainer. You should seek independent references.

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Curriculum Vitae

Personal Data

Birth date: July 6, 1981
Nationality: Austria
Title: Diplom-Ingenieur (Master of Science)
Magister (Master of Economics and Computer Science)

Education

1999 Matura (with distinction) – Akademisches Gymnasium Salzburg
1999-2002 Computer Science at the Vienna University of Technology (TU Vienna)
2002-2004 Software and Information Engineering at the TU Vienna
2003-2006 Researcher at the Institute for Software Technology in the group
Quality Software Engineering (<http://qse.ifs.tuwien.ac.at>)
2004-2006 *Master of Science* in Software Engineering and Internet Computing at the TU Vienna
(Graduated with distinction)
2006-2007 *Master of Science* in Economics and Computer Science at the TU Vienna
(Graduated with distinction)
Since 2006 PhD student and Project assistant at the Institute for Software Technology and
Interactive Systems working on Digital Preservation (<http://www.ifs.tuwien.ac.at/dp>)
Since 2002 Second foreign language: Spanish (besides English)

Specific Interests

Digital Preservation, Preservation Planning
Software Architecture and Design, Framework Design und Development
Software Cost Estimation
Data mining, Text mining, Self-Organizing Maps

Current Projects and Activities

PLANETS (Permanent Long-term Access through Networked Services) – The Planets project brings together European National Libraries and Archives, leading research institutions, and technology companies to address the challenge of preserving access to digital cultural and scientific knowledge. The objective of PLANETS is to develop systems and tools which will support the accessibility and use of

digital cultural and scientific resources, specifically through the development of novel concepts, techniques and tools to preserve the availability of digital resources over time. <http://www.planets-project.eu>

Digital Preservation Europe (DPE) – Electronic resources are a central part of our cultural and intellectual heritage; but this material is at risk. Digital memory needs constant management, using new techniques and processes, to contain such risks as technological obsolescence. Risk begins before the digital record is created and continues for as long as the digital object needs to be retained. Digital preservation is too big an issue for individual institutions or even sectors to address independently. Concerted action at both national and international level is required. Digital Preservation Europe facilitates pooling of the complementary expertise that exists across the academic research, cultural, public administration, and industry sectors in Europe. <http://www.digitalpreservationeurope.eu>

DELOS Network of Excellence: Digital Preservation Cluster – Integrated research in the preservation cluster provides the methodological framework and theory for ensuring that digital libraries research addresses preservation issues and digital libraries incorporate preservation elements in their designs. <http://www.dpc.delos.info>

Arbeitskreis Digital Preservation (in German) – Working Committee on Digital Preservation in Austria. <http://www.langzeitarchivierung.at>

Teaching at the Vienna University of Technology

Publications

Christoph Becker, Stephan Strodl, Robert Neumayer, Andreas Rauber, Eleonora Nicchiarelli Bettelli, Max Kaiser. *Long-Term Preservation of Electronic Theses and Dissertations: A Case Study in Preservation Planning*. In: Proceedings of the Ninth Russian National Research Conference on Digital Libraries: Advanced Methods and Technologies, Digital Collections (RCDL'07). Pereslavl, Russia, October 15-18, 2007. (Accepted for publication)

Stephan Strodl, Christoph Becker, Robert Neumayer, Andreas Rauber. *How to Choose a Digital Preservation Strategy: Evaluating a Preservation Planning Procedure*. In: Proceedings of the ACM IEEE Joint Conference on Digital Libraries (JCDL'07). Vancouver, British Columbia, Canada, June 2007.

Stephan Strodl, Christoph Becker, Robert Neumayer, Andreas Rauber, Eleonora Nicchiarelli Bettelli, Max Kaiser, Hans Hofman, Heike Neuroth, Stefan Strathmann, Franca Debole and Giuseppe Amato. *Evaluating Preservation Strategies for Electronic Theses and Dissertations*. In: Proceedings of the DELOS Conference on Digital Libraries. Tirrenia, Italy, February 2007.

Christoph Becker: *A Functional Model of a Digital Preservation Testbed*. Master Thesis at the Institute for Software Technology and Interactive Systems at the Vienna University of Technology, May 2007.

R Harvey, D Abbott, B Aitken, M Van Ballegoie, C Becker, C Casas Desantes, V Heydegger, Y. Kim, L Konstantelos, A McHugh, S Strodl, and S Ross. 2006. *Emerging approaches for digital preservation in digital libraries: Report of the Fifth DELOS International Summer School*. *Archivi e Computer*, XVI (1/06), 95-144.

Christoph Becker: *ReUse Cases: Supporting Knowledge Management and Reuse with Self-Organizing Use Case Maps*. Master Thesis at the Institute for Software Technology and Interactive Systems at the Vienna University of Technology, March 2006.

M. Auer, C. Becker, A. Rauber, S. Biffel: *Implicit Analogy-based Cost Estimation Using Textual Use Case Similarities*, in Proceedings of the 2nd ACM International Conference on Intelligent Computing and Information Systems (ICICIS'05). Cairo, Egypt, March 2005.

Software Projects (A Selection)

- 2005-2006 *SERUM – Self-Organizing Use case Maps*: Java application supporting the workflow-based analysis of text documents with self-organizing maps. Master thesis on this topic.
- 2005 *Zürich Message Queuing* by order of Zürich Financial Services: Reengineering of the C++-based glueware of the Zurich Extranet Framework and migration from IBM MQSeries to MSMQ.
- 2004 *CampusSolution R.2*: Reengineering of an online campus management software by order of flamaró Systementwicklung for the Sales-Manager Akademie (www.sma.at); Extranet web application based on Apache Struts, PostgreSQL; as a technical architect, designer and developer.
- 2002-2003 *VerschubDB* by order of Ontec Software Solutions GmbH, Vienna, for the Austrian Railway Association, BU Commercial Transport; Client-server web application for logistics planning using Oracle, J2EE and Java Applets; as a designer and database developer.
- 2002-2003 *Java Framework*: Enterprise Reporting Framework in Java for SQL database reports with output to RTF, HTML, XML, Excel; for Ontec Software Solutions GmbH, Vienna; as analytic, designer and developer. Bachelor thesis on this topic.
- 2001-2002 *DeMoNA*: 3-dimensional net adjustment for deformation monitoring by order of Significant Software for the Vorarlberger Illwerke; surveying and alignment software module based on Oracle, Delphi 6; as technical project lead, analytic, designer and database developer.
- 2001 *ZFS Extranet Initiative* by order of Zürich Financial Services; JavaServer Extranet Web Application with emphasis on the connecting legacy software using IBM Websphere Application Server, VisualAge, Together, Apache Struts, XML/XSL; as technical architect, designer and developer.
- 2000 *SCMS* (Smart Chip Management System) by order of integro Informationssysteme for the municipality of Vienna; Client-server EDI System using Oracle, Delphi 5, MID Innovator; as designer and developer.
- 1999-2000 *iMD* (integro Mediation Device) for the *iBS* (integro Billing Solution) by order of integro Informationssysteme; EDI module using Oracle, Delphi 5; as designer and developer.
- 1999 *VU2* (Intranet application for the sales support system) by order of Porsche Informatik; Reuse-oriented Client-server-system with emphasis on CRM using Delphi 4 and Informix; as developer.
- 1998 *KD2* (Intranet application for the warranty handling system) by order of Porsche Informatik; Client-server system with emphasis on EDI using Delphi 4, Informix; as developer.